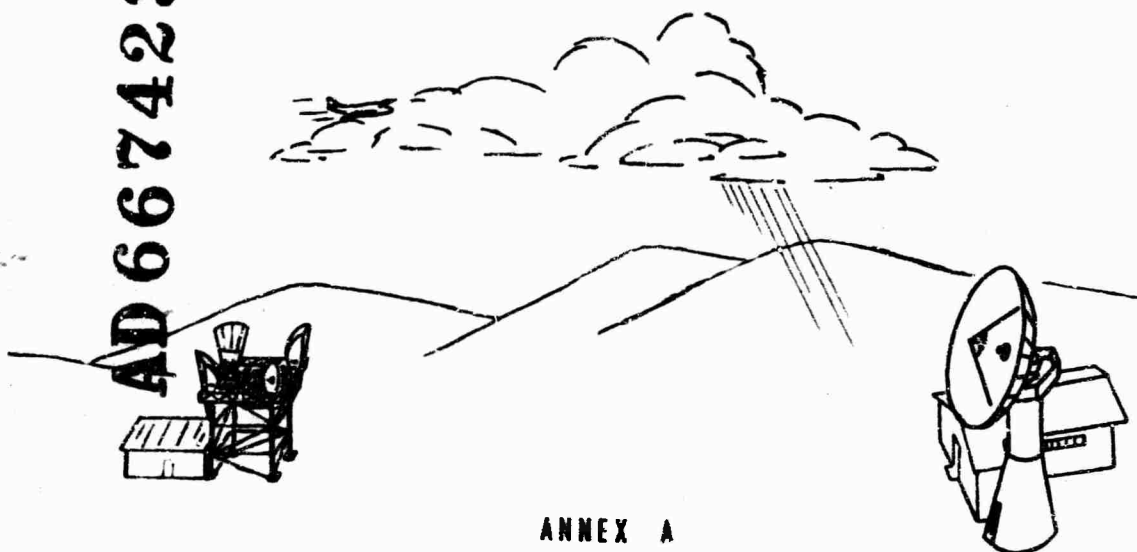


11
FEDERAL COMMUNICATIONS COMMISSION...U.S. AIR FORCE

POPSI PROJECT

AD 667423



ANNEX A
REPORT NO. R-6801

By
Roger B. Carey
Daniel B. Hutton
Gary S. Kalagian



RESEARCH DIVISION
OFFICE OF THE CHIEF ENGINEER
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554
March 15, 1968

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ANNEX A

REPORT NO. R-6801

March 15, 1968

FCC/USAF POPSI PROJECT

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Washington, D. C.

ANNEX A

Path Configuration and Sample Population

Table 1	NAFEC
Table 2	Wildwood
Table 3	Wallops Island, Virginia

NAFEC

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		No of On-Path Samples	No of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
5/13/66 to 8/16/66	1°	6°	2°	0°	1046	1050
					277	374
					273	369
					277	372
					276	371
					274	371
					274	369
					268	373
					268	366
					264	366
5/13/66 to 6/7/66				3°	267	368
					107	91
					107	91
					107	91
					107	91
					106	88
					106	88
					106	88
					106	86
					105	86
				6°	105	86
					105	86
					105	86
					105	86
					107	91
					107	90
					107	92
					107	93
					107	92
					107	92
					107	91
					107	92
					107	91
					107	92
					107	91
					107	92
					107	91
					107	92
					107	91
					108	92

TABLE 1

Table 1 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	No of			
	On-Path Elev.	Az.		Off-Path Samples	Off-Path Samples		
5/13/66 to 6/7/66	1°	6°	2°	6°	8	108	92
				9	9	107	92
				10	10	107	92
				1/2	1/2	140	245
				1	1	143	244
				2	2	143	248
				3	3	146	245
				4	4	147	244
				5	5	146	241
				6	6	147	238
6/7/66 to 8/16/66				7	7	147	232
				8	8	147	235
				9	9	146	243
				10	10	145	246
				1/2	1/2	146	252
				1	1	149	254
				2	2	149	249
				3	3	148	248
				4	4	149	249
				5	5	149	240
8/19/66 to 11/25/66	1°	3°	2°	6	6	149	240
				7	7	149	241
				8	8	149	240
				9	9	150	247
				10	10	150	251
				0°	0°	522	736
				2	2	149	200
				4	4	142	203
				6	6	141	202
				8	8	135	196
				10	10	135	198
				12	12	139	200
				14	14	136	201

Table 1 (cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration	No of On-Path Samples	No of Off-Path Samples
	On-Path Elev.	Az.	Az. Elev.		
8/19/66 to 11/25/66	1°	3°	0°	138	203
				135	201
				140	201
				113	165
				116	168
				118	170
				118	170
				117	170
				117	170
				117	168
				117	169
				117	170
				116	169
				115	170
				117	169
				120	172
1/24/67 to 2/16/67	1°	3°	0°	120	172
				120	172
				121	173
				120	173
				122	174
				122	172
				123	172
				123	174
				123	176
				123	175
				307	461
				140	128
				134	124
				141	127
				141	128
				142	128
				141	126

Table 1 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		No of	
	On-Path Elev.	Az.	Off-Path Elev.	Az.	On-Path Samples	Off-Path Samples
1/24/67 to 2/16/67	1°	3°	2°	0°	149	129
					149	129
					148	130
					154	130
					123	108
					126	108
					126	110
					126	108
					120	107
					126	109
					126	110
					128	110
					130	108
					131	109
					130	108
					134	109
			18°	1/4	135	111
					135	111
					135	111
					135	111
					135	110
					134	111
					133	111
					134	111
					133	111
					133	111
					134	111
					134	111

WILDWOOD

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples		Number of Off-Path Samples	
	On-Path Elev.	Az.	Off-Path Elev.	Az.	Elev.	Samples	Elev.	Samples
2/16/66 to 5/13/66	0°	3°	1°	0°	1/2	1191	1449	
					1	356	438	
					2	341	420	
					3	328	413	
					4	332	412	
					5	327	410	
					6	326	401	
					7	323	399	
					8	313	394	
					9	316	392	
					10	319	393	
				3°	1/2	257	305	
					1	261	309	
					2	260	310	
					3	266	318	
					4	266	317	
					5	265	317	
					6	267	320	
					7	267	320	
					8	261	316	
					9	264	319	
					10	268	321	
	6°	1/2	262	307				
		1	258	307				
		2	260	310				
		3	261	310				
		4	259	309				
		5	259	312				
		6	260	314				
		7	260	315				
		8	254	311				
		9	256	312				
		10	260	314				

TABLE 2

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
5/13/66 to 6/7/66	0°	6°	1°	0°	670	673
					186	186
					182	185
					179	184
					183	185
					180	184
					180	184
					174	183
					172	182
					173	181
					170	181
					158	158
	3°	3°	1/2	1/2	158	158
					158	158
					158	159
					159	159
					158	159
					157	159
					156	158
					153	159
					156	159
					154	158
	6°	6°	1/2	1/2	159	160
					159	161
					160	161
					160	162
					160	162
					160	162
					160	162
					162	164
					161	164
					162	165
					162	165

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration On-Path Elev.	Az.	Off-Path Elev.	TX Ant. Configuration Az.	Elev.	Number of On-Path Samples	Number of Off-Path Samples
6/7/66 to 8/17/66	0°	6°	2°	0°	1/2	934	1374
					1	246	356
					2	239	356
					3	235	355
					4	235	356
					5	236	358
					6	234	355
					7	230	353
					8	223	355
					9	229	360
					10	225	359
					1/2	221	326
					1	222	321
					2	221	326
					3	218	326
					4	223	329
	9°	6°	2°	9°	5	222	328
					6	221	331
					7	223	327
					8	220	325
					9	220	327
					10	219	327
					1/2	219	323
					1	219	326
					2	221	328
					3	222	329
					4	221	330
					5	224	332
					6	222	333
					7	220	333
					8	225	330
					9	223	332
					10	225	334
	12°	6°	2°	12°	1/2	219	323
					1	219	326
					2	221	328
					3	222	329
					4	221	330
					5	224	332
					6	222	333
					7	220	333
					8	225	330
					9	223	332
					10	225	334

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
8/19/66 to 12/14/66	0°	3°	2°	0°	980	1130
					246	291
					230	289
					222	290
					221	292
					216	288
					229	286
					223	287
					225	293
					232	289
					230	291
					207	238
					213	245
					212	243
					205	248
					215	252
					208	250
					214	252
					210	249
					209	249
					206	250
					207	249
					212	250
					216	252
					219	247
					218	251
					219	258
					218	259
					217	258
					217	259
					216	259
					221	255
					219	258
	18°	12°	1/2	18°	980	1130
					246	291
					230	289
					222	290
					221	292
					216	288
					229	286
					223	287
					225	293
					232	289
					230	291
					207	238
					213	245
					212	243
					205	248
					215	252
					208	250
					214	252
					210	249
					209	249
					206	250
					207	249
					212	250
					216	252
					219	247
					218	251
					219	258
					218	259
					217	258
					217	259
					216	259
					221	255
					219	258

Table 2 (Cont'd)

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
12/14/66 to 1/16/67	0	3°	1°	0°		571
						156
						154
						151
						150
						150
						154
						151
						152
						154
						152
						134
						133
						134
						135
						138
						138
						137
						136
						137
						136
						137
						135
						138
						138
						138
						138
						137
						137
						138
						138
						139
				12°		571
						156
						154
						151
						150
						150
						154
						151
						152
						154
						152
						134
						133
						134
						135
						138
						138
						137
						136
						137
						136
						137
						135
						138
						138
						138
						138
						137
						137
						138
						138
						139
				18°		571
						156
						154
						151
						150
						150
						154
						151
						152
						154
						152
						134
						133
						134
						135
						138
						138
						137
						136
						137
						136
						137
						135
						138
						138
						138
						138
						137
						137
						138
						138
						139

WALLOPS ISLAND

Time Period	Receiving Ant. Configuration		TX Ant. Configuration		Number of On-Path Samples	Number of Off-Path Samples
	On-Path Elev.	Az.	Off-Path Elev.	Az.		
1/24/67 to 2/16/67	0°	3°	1/2°	0°	316	643
				1/4	73	177
				3	80	176
				6	86	179
				9	89	179
				12	90	179
				15	86	178
				18	90	176
				21	90	175
				24	90	175
				27	89	174
				30	75	149
				1/4	77	150
				3	76	150
				6	76	153
	18°	3°	1/2°	9	77	152
				12	76	155
				15	76	154
				18	77	153
				21	78	153
				24	78	154
				27	78	152
				30	78	157
				1/4	78	155
				3	78	155
				6	78	156
				9	76	157
				12	77	156
				15	77	157
				18	76	155
				21	76	156
				24	76	155
				27	76	155
				30	76	153

TABLE 3

ANNEX A

Probability Distributions

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-1	NAFEC	On-Path	0	1/2,6,12	5/13/66-2/16/67
A-2	NAFEC	On	0	1,7,15	5/13/66-2/16/67
A-3	NAFEC	On	0	2,8,16	5/13/66-2/16/67
A-4	NAFEC	On	0	3,9,18	5/13/66-2/16/67
A-5	NAFEC	On	0	4,14	5/13/66-2/16/67
A-6	NAFEC	On	0	1/2,1,2,10	5/13/66-8/16/66
A-7	NAFEC	On	0	3,6,8	5/13/66-8/16/66
A-8	NAFEC	On	0	4,9	5/13/66-8/16/66
A-9	NAFEC	On	0	5,7	5/13/66-8/16/66
A-10	NAFEC	On	3	1,6	5/13/66-6/7/66
A-11	NAFEC	On	3	2,7	5/13/66-6/7/66
A-12	NAFEC	On	3	3,8	5/13/66-6/7/66
A-13	NAFEC	On	3	4,9	5/13/66-6/7/66
A-14	NAFEC	On	6	1,9	5/13/66-6/7/66
A-15	NAFEC	On	6	2,8	5/13/66-6/7/66
A-16	NAFEC	On	6	3	5/13/66-6/7/66
A-17	NAFEC	On	6	4,5	5/13/66-6/7/66
A-18	NAFEC	On	6	6	5/13/66-6/7/66
A-19	NAFEC	On	9	1,6	6/7/66-8/16/66
A-20	NAFEC	On	9	2,4	6/7/66-8/16/66
A-21	NAFEC	On	9	3,9	6/7/66-8/16/66
A-22	NAFEC	On	9	7	6/7/66-8/16/66
A-23	NAFEC	On	9	8	6/7/66-8/16/66
A-24	NAFEC	On	12	1,2,3	6/7/66-8/16/66
A-25	NAFEC	On	12	4,10	6/7/66-8/16/66
A-26	NAFEC	On	12	5,7,8	6/7/66-8/16/66
A-27	NAFEC	On	0	1/2,10,20	8/19/66-11/25/66
A-28	NAFEC	On	0	2,8,16	8/19/66-11/25/66
A-29	NAFEC	On	0	4,12,18	8/19/66-11/25/66
A-30	NAFEC	On	0	6,14	8/19/66-11/25/66
A-31	NAFEC	On	12	2,12,16	8/19/66-11/25/66
A-32	NAFEC	On	12	6,14	8/19/66-11/25/66
A-33	NAFEC	On	12	8	8/19/66-11/25/66
A-34	NAFEC	On	12	10,20	8/19/66-11/25/66
A-35	NAFEC	On	18	2,10	8/19/66-11/25/66
A-36	NAFEC	On	18	4,16	8/19/66-11/25/66

Annex A (cont'd)

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-37	NAFEC	On-Path	18	6,14	8/19/66-11/25/66
A-38	NAFEC	On	18	8,20	8/19/66-11/25/66
A-39	NAFEC	On	18	12	8/19/66-11/25/66
A-40	NAFEC	On	0	1/4,15,24	1/24/67-2/16/67
A-41	NAFEC	On	0	3,12,18	1/24/67-2/16/67
A-42	NAFEC	On	0	6,21	1/24/67-2/16/67
A-43	NAFEC	On	3	3,6	1/24/67-2/16/67
A-44	NAFEC	On	3	9,12,24	1/24/67-2/16/67
A-45	NAFEC	On	3	18,21,27	1/24/67-2/16/67
A-46	NAFEC	On	18	3,27	1/24/67-2/16/67
A-47	NAFEC	On	18	6,21	1/24/67-2/16/67
A-48	NAFEC	On	18	9,12	1/24/67-2/16/67
A-49	NAFEC	On	18	18,24,30	1/24/67-2/16/67
A-50	NAFEC	Off-Path	0	1,7	5/13/66-8/16/66
A-51	NAFEC	Off	0	2,8	5/13/66-8/16/66
A-52	NAFEC	Off	0	3,9	5/13/66-8/16/66
A-53	NAFEC	Off	0	4,6	5/13/66-8/16/66
A-54	NAFEC	Off	3	1/2,5,10	5/13/66-6/7/66
A-55	NAFEC	Off	3	1,7	5/13/66-6/7/66
A-56	NAFEC	Off	3	2,6	5/13/66-6/7/66
A-57	NAFEC	Off	3	3,9	5/13/66-6/7/66
A-58	NAFEC	Off	3	4,8	5/13/66-6/7/66
A-59	NAFEC	Off	6	1/2,5,10	5/13/66-6/7/66
A-60	NAFEC	Off	6	1,7	5/13/66-6/7/66
A-61	NAFEC	Off	6	2,8	5/13/66-6/7/66
A-62	NAFEC	Off	6	3,9	5/13/66-6/7/66
A-63	NAFEC	Off	6	4,6	5/13/66-6/7/66
A-64	NAFEC	Off	9	5,10	6/7/66-8/16/66
A-65	NAFEC	Off	12	5,8	6/7/66-8/16/66
A-66	NAFEC	Off	12	7	6/7/66-8/16/66
A-67	NAFEC	Off	12	9	6/7/66-8/16/66
A-68	NAFEC	Off	0	1/2,10	8/19/66-11/25/66
A-69	NAFEC	Off	0	2,16	8/19/66-11/25/66
A-70	NAFEC	Off	0	4,8	8/19/66-11/25/66
A-71	NAFEC	Off	0	6,12	8/19/66-11/25/66
A-72	NAFEC	Off	0	14	8/19/66-11/25/66
A-73	NAFEC	Off	0	18,20	8/19/66-11/25/66
A-74	NAFEC	Off	12	1/2,10	8/19/66-11/25/66
A-75	NAFEC	Off	12	2,12	8/19/66-11/25/66
A-76	NAFEC	Off	12	4,20	8/19/66-11/25/66
A-77	NAFEC	Off	12	6,16	8/19/66-11/25/66
A-78	NAFEC	Off	12	8,14,18	8/19/66-11/25/66
A-79	NAFEC	Off	18	1/2,6,10	8/19/66-11/25/66
A-80	NAFEC	Off	18	2,12,18	8/19/66-11/25/66
A-81	NAFEC	Off	18	4,20	8/19/66-11/25/66
A-82	NAFEC	Off	18	8,14,16	8/19/66-11/25/66
A-83	NAFEC	Off	3	1/4,9	1/24/67-2/16/67
A-84	NAFEC	Off	3	3,6	1/24/67-2/16/67

Annex A (cont'd)

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-85	Wildwood	On-Path	0	1/2,6,7	2/16/66-5/13/66
A-86	Wildwood	On	0	1/2,8	2/16/66-5/13/66
A-87	Wildwood	On	0	1/2,9	2/16/66-5/13/66
A-88	Wildwood	On	3	1/2,1,2	2/16/66-5/13/66
A-89	Wildwood	On	3	3,4,5	2/16/66-5/13/66
A-90	Wildwood	On	3	6,7	2/16/66-5/13/66
A-91	Wildwood	On	3	8	2/16/66-5/13/66
A-92	Wildwood	On	6	1/2,1,2	2/16/66-5/13/66
A-93	Wildwood	On	6	3,4	2/16/66-5/13/66
A-94	Wildwood	On	6	5,6	2/16/66-5/13/66
A-95	Wildwood	On	6	7,8	2/16/66-5/13/66
A-96	Wildwood	On	6	9	2/16/66-5/13/66
A-97	Wildwood	On	0	1/2,6,7	5/13/66-6/7/66
A-98	Wildwood	On	0	1/2,8	5/13/66-6/7/66
A-99	Wildwood	On	0	1/2,9	5/13/66-6/7/66
A-100	Wildwood	On	3	1/2,1,2	5/13/66-6/7/66
A-101	Wildwood	On	3	3	5/13/66-6/7/66
A-102	Wildwood	On	3	4,5	5/13/66-6/7/66
A-103	Wildwood	On	3	6,7	5/13/66-6/7/66
A-104	Wildwood	On	3	8	5/13/66-6/7/66
A-105	Wildwood	On	6	1/2,1,2	5/13/66-6/7/66
A-106	Wildwood	On	6	3	5/13/66-6/7/66
A-107	Wildwood	On	6	4,5	5/13/66-6/7/66
A-108	Wildwood	On	6	6,7	5/13/66-6/7/66
A-109	Wildwood	On	6	8,9	5/13/66-6/7/66
A-110	Wildwood	On	0	1/2,6,7	6/7/66-8/17/66
A-111	Wildwood	On	0	1/2,8	6/7/66-8/17/66
A-112	Wildwood	On	0	1/2,9	6/7/66-8/17/66
A-113	Wildwood	On	9	1/2,1	6/7/66-8/17/66
A-114	Wildwood	On	9	2	6/7/66-8/17/66
A-115	Wildwood	On	9	3,4	6/7/66-8/17/66
A-116	Wildwood	On	9	6,9	6/7/66-8/17/66
A-117	Wildwood	On	9	7,8	6/7/66-8/17/66
A-118	Wildwood	On	12	1,2,3	6/7/66-8/17/66
A-119	Wildwood	On	12	4,5	6/7/66-8/17/66
A-120	Wildwood	On	12	6	6/7/66-8/17/66
A-121	Wildwood	On	12	7	6/7/66-8/17/66
A-122	Wildwood	On	12	8,9	6/7/66-8/17/66
A-123	Wildwood	On	0	1/2,8,10	8/19/66-12/14/66
A-124	Wildwood	On	0	1/2,12	8/19/66-12/14/66
A-125	Wildwood	On	0	1/2,14	8/19/66-12/14/66
A-126	Wildwood	On	0	1/2,16,18	8/19/66-12/14/66
A-127	Wildwood	On	12	2,4,18	8/19/66-12/14/66
A-128	Wildwood	On	12	6,10	8/19/66-12/14/66
A-129	Wildwood	On	12	8,14	8/19/66-12/14/66
A-130	Wildwood	On	12	12,16	8/19/66-12/14/66
A-131	Wildwood	On	18	4,16	8/19/66-12/14/66
A-132	Wildwood	On	18	6	8/19/66-12/14/66
A-133	Wildwood	On	18	8,12	8/19/66-12/14/66
A-134	Wildwood	On	18	10,18	8/19/66-12/14/66
A-135	Wildwood	On	18	14	8/19/66-12/14/66

Annex A (cont'd)

Figure	Location	Receiver	<u>TX Ant. Az.</u> <u>(degrees)</u>	<u>TX Ant. Elev.</u> <u>(degrees)</u>	<u>Date</u>
A-136	Wildwood	Off-Path	0	1,8	2/16/66-5/13/66
A-137	Wildwood	Off	0	2,3	2/16/66-5/13/66
A-138	Wildwood	Off	0	4,6	2/16/66-5/13/66
A-139	Wildwood	Off	0	5,7,9	2/16/66-5/13/66
A-140	Wildwood	Off	3	1/2,7	2/15/66-5/13/66
A-141	Wildwood	Off	3	1/2,8	2/16/66-5/13/66
A-142	Wildwood	Off	3	1/2,9	2/16/66-5/13/66
A-143	Wildwood	Off	6	1/2,10	2/16/66-5/13/66
A-144	Wildwood	Off	6	1,3,9	2/16/66-5/13/66
A-145	Wildwood	Off	6	2,4,8	2/16/66-5/13/66
A-146	Wildwood	Off	6	5,7	2/16/66-5/13/66
A-147	Wildwood	Off	6	6	2/16/66-5/13/66
A-148	Wildwood	Off	0	3,10	5/13/66-6/7/66
A-149	Wildwood	Off	0	4,9	5/13/66-6/7/66
A-150	Wildwood	Off	0	5,8	5/13/66-6/7/66
A-151	Wildwood	Off	0	6,7	5/13/66-6/7/66
A-152	Wildwood	Off	3	1/2,1,10	5/13/66-6/7/66
A-153	Wildwood	Off	3	2,4	5/13/66-6/7/66
A-154	Wildwood	Off	3	3,5	5/13/66-6/7/66
A-155	Wildwood	Off	3	6,7	5/13/66-6/7/66
A-156	Wildwood	Off	3	8	5/13/66-6/7/66
A-157	Wildwood	Off	3	9	5/13/66-6/7/66
A-158	Wildwood	Off	6	1/2,1,3	5/13/66-6/7/66
A-159	Wildwood	Off	6	2,9	5/13/66-6/7/66
A-160	Wildwood	Off	6	4,10	5/13/66-6/7/66
A-161	Wildwood	Off	6	5,8	5/13/66-6/7/66
A-162	Wildwood	Off	6	6,7	5/13/66-6/7/66
A-163	Wildwood	Off	0	2,3,5	6/7/66-8/17/66
A-164	Wildwood	Off	0	6,7	6/7/66-8/17/66
A-165	Wildwood	Off	0	8	6/7/66-8/17/66
A-166	Wildwood	Off	0	9	6/7/66-8/17/66
A-167	Wildwood	Off	9	1/2,1,10	6/7/66-8/17/66
A-168	Wildwood	Off	9	2,9	6/7/66-8/17/66
A-169	Wildwood	Off	9	5,7	6/7/66-8/17/66
A-170	Wildwood	Off	12	1,5	6/7/66-8/17/66
A-171	Wildwood	Off	12	2,6	6/7/66-8/17/66
A-172	Wildwood	Off	12	7,8	6/7/66-8/17/66
A-173	Wildwood	Off	0	4,16	8/19/66-12/14/66
A-174	Wildwood	Off	0	6,12	8/19/66-12/14/66
A-175	Wildwood	Off	0	8,14	8/19/66-12/14/66
A-176	Wildwood	Off	0	10,18	8/19/66-12/14/66
A-177	Wildwood	Off	12	1/2,8,20	8/19/66-12/14/66
A-178	Wildwood	Off	12	2,10,18	8/19/66-12/14/66
A-179	Wildwood	Off	12	4,12,16	8/19/66-12/14/66
A-180	Wildwood	Off	12	6,14	8/19/66-12/14/66
A-181	Wildwood	Off	18	4,20	8/19/66-12/14/66
A-182	Wildwood	Off	18	6,18	8/19/66-12/14/66
A-183	Wildwood	Off	18	2,12	8/19/66-12/14/66

Annex A (cont'd)

<u>Figure</u>	<u>Location</u>	<u>Receiver</u>	<u>TX Ant. Az. (degrees)</u>	<u>TX Ant. Elev. (degrees)</u>	<u>Date</u>
A-184	Wallops Isl.	On-Path	3	1/4	1/24/67-2/16/67
A-185	Wallops Isl.	On	18	1/4,18,21	1/24/67-2/16/67
A-186	Wallops Isl.	Off-Path	0	1/4,3	1/24/67-2/16/67
A-187	Wallops Isl.	Off	0	9,21,30	1/24/67-2/16/67
A-188	Wallops Isl.	Off	3	30	1/24/67-2/16/67
A-189	Wallops Isl.	Off	18	3,18	1/24/67-2/16/67
A-190	Wallops Isl.	Off	18	6,24	1/24/67-2/16/67
A-191	Wallops Isl.	Off	18	9,27	1/24/67-2/16/67
A-192	Wallops Isl.	Off	18	12,21	1/24/67-2/16/67
A-193	Wallops Isl.	Off	18	30	1/24/67-2/16/67

